

PATENT Docket No.: 57953/1151 (SAM01-02US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	Muktar A. Mahajan et al.) Examiner:
•••		-) Guy L. Guidry
Serial No.	;	10/645,250))
Cnfrm. No.	:	7913) 1636)
Filed	:	August 20, 2003	,))
For	:	NIF-1 IS A NOVEL CO-TRANSDUCER THAT INTERACTS WITH AND REGULATES THE ACTIVITY OF THE NUCLEAR HORMONE RECEPTOR CO- ACTIVATOR, NRC))))

DECLARATION OF MUKTAR A. MAHAJAN AND HERBERT H. SAMUELS UNDER 37 CFR § 1.131

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

We, MUKTAR A. MAHAJAN AND HERBERT H. SAMUELS, pursuant to 37 CFR § 1.131 declare that:

- 1. We are joint inventors of the above-identified patent application.
- 2. It is our understanding that the U.S. Patent and Trademark Office has rejected claims of our above-identified application over U.S. Patent 6,783,969 to Tang et al. (filed March 5, 2001).
- 3. We are providing this declaration to demonstrate that the claimed subject matter of our above patent application was invented by us, in the United States, before March 5, 2001.
- 4. Attached hereto as Exhibits 1, 2, and 3 are copies of NIF-1 sequences we generated. The data was documented before March 5, 2001. Exhibit 1 shows a nucleic acid molecule having a nucleotide sequence of SEQ ID NO: 1. Page 1 shows 1-3762 of the sequence (starting from G, the second letter displayed) and page 2 shows from 571-4430 of the sequence. The exact dates the SEQ ID NO: 1 data was documented are redacted on

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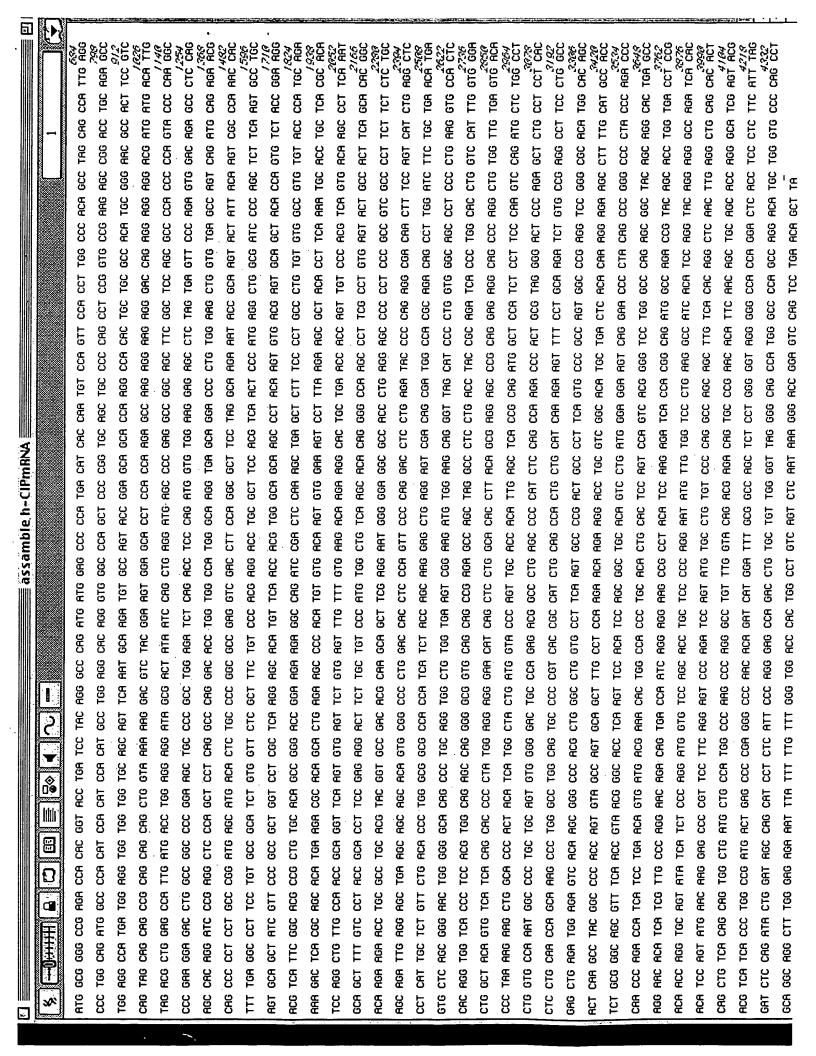
- 2 -

Exhibit 2 (pages 1 and 2). Exhibit 3 shows the complete amino acid sequence designated as SEQ ID NO: 2 (from 1-1443) and the exact dates the data was documented are redacted.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

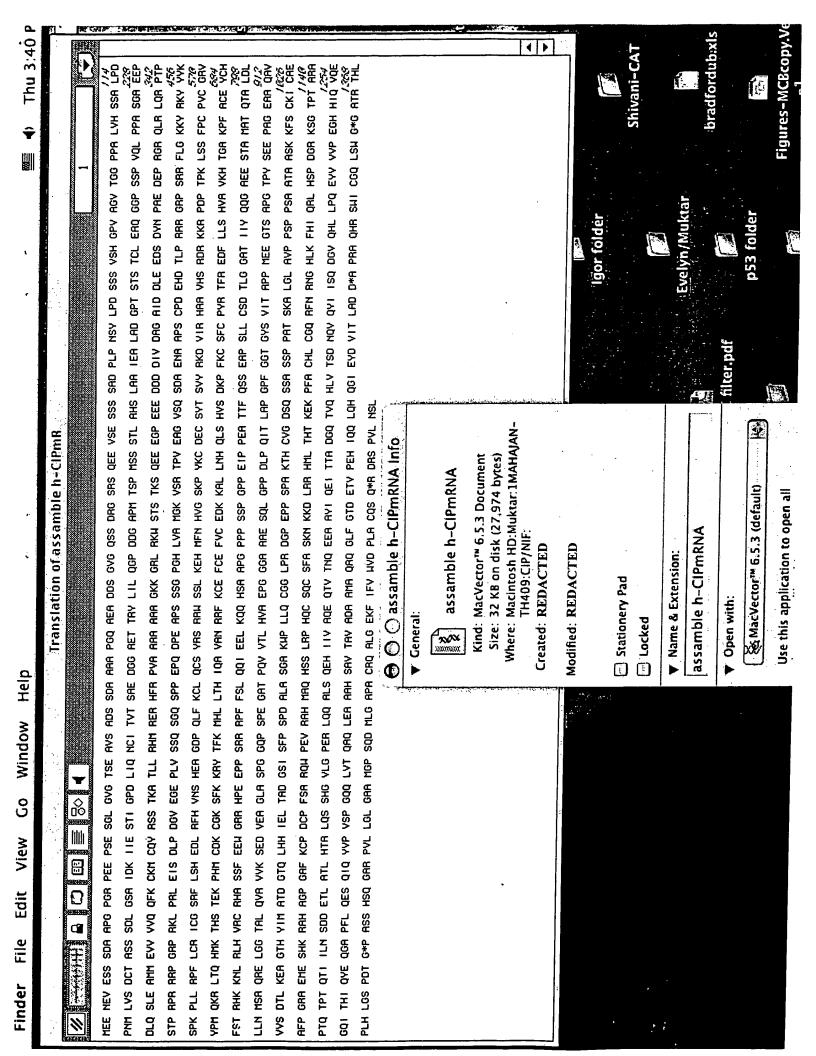
Mukter A. Mahajan

Date: 7/10/67



6.8% AGG PCA PCA 572 866 78.7 76.7 15% CT 88 85.A हैं PAT 853 AGG AGA ACG 85 85 50 CTG ACA. **HGH** ဦ S S GGA 5 96 66 GCG ACG ACC CCC STO 8 CTG ACA TGC CAA ပ္ပ 5 GTG CCA TTG GTG GTG ARC 5 50 ပ္ပ SA 8 ပ္ပ 8 ខ ន **TCB** CTG TGA GTG ATG CAG င္ပ SS GCA TCT TGA CTC **J 1**66 ပ္ပ AGG CAC SS 55 ᄗ ပ္ပ ပ္ပ AGT ပ္ပ CCT 5 TGG TGA TTG CAT CTR ပ္ပ င္ပ ATG GTA RGA ATG **TT**6 ATG CTG 25 CCG ACA GCA 9CC ပ္ပ ပ္ပ 90 20 20 9 9 10 E **PAG** S ATC AGA TGG CGA GCG CAG S ACC TGC CAT **1**60 CAT AGC TCT TCA ACA CCA GTG TCT 75 ည္ထ 999 E S ည္ င္ပ ACT CTG S CT ပ္ပ **T**RG SCT SCT 966 ပ္ပ CTG TGA GTG GAC AGT CAG ATT ACA AGT GTG TGT GTG ACA AGT ATC TTC CTG GTC CTG TGG GGC TAC. RGC TAC AGC ACC ည္ထ 999 CAG ပ္ပ CCT TCA AAA TGC ပ္ပ GTC AGA 999 ည် 99 **9**66 ပ္ပ ပ္ပ 5 ပ္ပ ဌ 55 TCA **9**66 ACT GTC CTT **1**66 <u>5</u> ည္ဟ AGG CAA ပ္ပ GTG ដ AGA ပ္ပ 900 CTG RGH GCG GCC TGG GTG TGG GCA CCT CAG ARG CCG TGT CCG GCA GCT CCC ACA CCG AAG GCC CCA CCC AGA **GTG TGA GCC** ATC CCC GTG GCC ACG TCA ACA TGC GCA 999 **PCT** CCT ပ္ပ ACH TCH TCG 710 CCC AGG ARC AGA CAG TGA CCA ATC AGG AGG ARG CCG CCT ACA TCC ARG AGA TCA CCA CGG CAG ATG GCC AGA CCG GTG CAC AGT CAA **1**66 ည AGG 90 90 90 AGC ပ္ပ 90C 75 CTA CAG S T RCT AGA GCA GTG 769 CHH CHH SCC CAG **1**66 **GT**G ပ္ပ 89 ဥ္ပ ပ္ပ 89 ၁ ACT 760 GTT RGT ပ္ပ CGA CAG ပ္ပမ္ ပ္ပ SC ဗ္ဗ GCC CCG CTG TCR GGC RGC CTG TGT CTA SCT ္ဌ 55 T SHC SHC CTG CTG £ GTG GCA ACA BCA ပ္ပ GCG GCA GCC GTT CTC AGG AGG AGG TAT CTG AGA GCA AGT 161 5 **A**66 RGA **T**CB AGG 757 TAG ၁၅၅ CTC TAG TGA S AGC TTC GGC TCC PGT. GAA ည ပ္ပ 5 **1**56 CTG AGA GAG င္ပ ပ္ပ CTC ATG GGC CAG TGG CAG GGG TGA CAG GCG GTC CCC CAG CAC TTG TGC ACT GCC CAG ATG ATG GAG CCC CCA TGA CAT CAC CAA TGT CCA GTT CCA CCA CAC TGC ARG AGG CTG TGG AAG SHO ပ္ပ S ACA GTG ATG ACG AAA CAC TGG CCA CCC TGC ACA CTG CAC TCC AGT CCA GTC ACG GGG TCC TGG TCA TCC ATG AGG GTG ACG CCC CAG CCT ပ္ပ AGT TGC TGA CALCOTH SOFT RGT CAG HHT S မ္မ ပ္ပ 5 9 9 ပ္ပ S ပ္ပ ပ္ပ SHG SCT **BCT** T ပ္ပ AGG PGC DE CCG ACC AGA ပ္ပ AGT **B**GB Acc 98 900 **TR** 99 띪 9 ATG ပ္ပ PGT ပ္ပ 5 130 1 Macintosh HD:Muktar:1MAHAJAN-CCA TCG ACA AGA TCA TCG AGT CCA CCA TCG GGC GTT CCC AGA CCC TAC 🖨 🕙 🔘 assamble h-CIPmRNA Info 32 KB on disk (27,974 bytes) MacVector** 6.5.3 Document assamble h-CiPmRNA S MacVector™ 6.5.3 (default) Jse this application to open all Ownership & Permissions assamble h-CIPmRNA TH409:CIP/NIF: Created: REDACTED Modified: REDACTED Name & Extension: documents like this. ACC GAA Stationery Pad OCT CGG GGC CCG AGG AGC CCT CGA TGC CGG AGT CAG AGA GGA ACG TGG CTA CGA AAG CCT CGG AGT Change All Comments Open with TCC* FIETH MEDITION General Preview ☐ Locked Kind: Where: Size: MOTOTON MOTOTON TGG GGC AAA TGG AGG PAT 900 GTG GAG 99 GCG GT TGC CCF GCA GCT TTG 5 GGA AGE AGA AGC TCT TG 000 CT CCA TC TGG CT AGG GAF CTG ATC GGC CT(GAC GT ACG GGC ACC TCA AGT 999 ္ဌ ပ္ပ **9**66 TCT ACG 99 **1**5 SHO ပ္ပ SCT CGG CCC CTG GGC CTG GCC CAG AGG CCG ATG ACT CTG GCG SC ပ္ပ HTH 99 င္ပ AGG 999 AGG CTA GAC **1**60 C16 9HG **1**60 CTC TCA 900 CTG AGT RCT SAC CGT CTG TGT CTC ACC TGA TCC TAC AGT ပ္ပ ပ္ပ ည္သင္တ HGT. S SS GTG ပ္ပ GTG ပ္ပ CAG 999 S S S ACC TGG CAT CAG CTG GTA AAA AGG ACA CTC GTG GTT ပ္ပ 999 **9**66 55 CTR TGG TCA TGG TGG TGG TGG TGC AGC AGC TGC ပ္ပ AGG S CCT ပ္ပ ACA CA GAG 95 E ပ္ပ ပ္ပ 9 9 9 GTG **1**66 ပ္ပ RGT **GGT** CCA CAT CCA 99 <u>6</u> SC ATG TCT **G**61 ACA ပ္ပ ပ္ပ **1**66 S CAG ပ္ပ 85 E 999 GTA **E**5 ည TAC AGT ပ္ပ ACC 166 **GGT** SCA **1**60 AGA GCA **T**GG S **T**66 ည္ထ GTA ပ္ပ CTC CCB **9**00 **B**60 ပ္ပ **1**60 RGT CAT ATG AGC 9 5 쥰 S GGT ខ្ល £ ပ္ထ **1**60 ည္ AGA CCA TCA TCC TGA ည္ SHO ATG CTG **9**0 ပ္ပ ATT 5 ပ္ပ CHI ပ္ပပ္ပ ပ္ပ ပ္ပ TGA g G GCA **TGC** 930 ACA E 999 CAG ပ္ပ **TCB** GTC ပ္ပ AGG TGA CTG AAG CTT င္ပ ပ္ပ 999 99 ပ္ပ ္ဌ ACA 9 2 ပ္ထ ပ္ပ **T**GG ដ **T**CA င္ပ ပ္ပ SCA SCA GCG **GGC AGG** ATA GCT ACC TCC CTG 900 CCA CCG CAG CCA TTG TGT 8 AGA CTG ္ပ ည္ပ 9 2 TCA ပ္ပပ္ပ gg RGA ပ္ပဋ္ဌ GTT AGG CCA TGA TGG 5 611 AGC င္ပ SCT **J**60 5 5 GTT AAC ပ္ပ CTG ည္ပ **1**66 TAC SCA ATC SCT ATC ပ္ပပ္ပ ပ္ပ 116 1 GTC ည္ပ 966 999 676 င္ပ 933 999 939 ည္တ CCT **TCB** A B B **RAT** 992 222 TGG CAG ATG TAG CAG CAG 757 ACG CTG GAG PCT **G**GA **B**66 CCT TC CTG TT AGA 116 င်း **B**GA ပ္ပ ပ္ပ **R**GH ပ္ပင္ပ gcT 띥 760 AGC **1**66 **8**28 ARG CAA CCT CGT -69 **1**68 GCA 당 AGA GTG CTG CTG ပ္ပ ပ္ပ AGG AAC **1**66 ္ပ TAA CAA ဥ္ပ ဥ ပ္ပ GAC AGG 8 CTC **B**GG 얺 င္ပ GHT. 8 CTC GAG 993 CTA ATG ပ္ပ Sec **TRG** SBS ည APA BPA SCA 뜐 ខ្ល 676 CTG ပ္ပ 75 **TGT** 166 ပ္ပ ဗ္ဗ TT RGT 5 980 9 읎

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